FUJITSU

PRIMERGY BladeFrame

System configurator and order-information guide

December 2011

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Change report

PRIMERGY Server

Instructions

This document contains basic product and configuration information that will enable you to configure your system via System-Architect.

Only the tool "System-Arcitect" will ensure a fast and proper configuration of your PRIMERGY server or your complete PRIMERGY Rack system.

Please pay attention to the naming conventions:

BF400 S2	System unit with up to 24 Processing Blades, improved performance, power options and housing
BF200	System unit with up to 6 Processing Blades
BFi20	2-way Processing Blade, (Intel)
BFi20S5/6	2-way Processing Blade, Quad Core CPUs (Intel)
BFa20	2-way Processing Blade, (AMD)
BFa20S2	2-way Processing Blade, Dual Core CPUs (AMD)
BFi40	4-way Processing Blade, (Intel)
BFi40S2	4-way Processing Blade, Dual Core CPUs (Intel)
BFa40	4-way Processing Blade, (AMD)
BFa40S2	4-way Processing Blade, Dual Core CPUs (AMD)

You can configure your individual PRIMERGY BladeFrame system in order to adjust your specific requirements.

The System configurator is divided into several chapters that are identical to the current price list and PC-/ System-Architect.

Please follow the lines. If there is a junction, you can choose which way or component you would like to take. Go through the configurator by following the lines from the top to the bottom.

Section III Processing Blades BFi20

Processing Blades with:
- Dual Xeon Processor Support with EM64T
- Different memory configurations with DDR2 DIMM modules
- No internal hard disks
- Different number of processing blades can be installed in System Unit BF200 (max. 6) and System Unit BF400 (max. 24). Remaining slots has to be populated with Dummy Processing Blades.

6x or 24x

Processing Blade with Intel Xeon 3.2 GHz (EM64T)	**Processing Blade with Intel Xeon 3.2 GHz (EM64T)**	**Processing Blade with Intel Xeon 3.6 GHz (EM64T)**
includes 2x CPU, 1 MByte SLC and 2 GByte memory	includes 2x CPU, 1 MByte SLC and 6 GByte memory	includes 2x CPU, 1 MByte SLC and 8 GByte memory
occupies one slot	occupies one slot	occupies one slot
S26361-K1061-V201	**S26361-K1061-V202**	**S26361-K1061-V203**
PB200507	PB200508	PB200504
max. 6x per System Unit BF200	max. 6x per System Unit BF200	max. 6x per System Unit BF200
max. 24x per System Unit BF400	max. 24x per System Unit BF400	max. 24x per System Unit BF400

In one chapter you can only select as many components (here 3x) as the arrow indicates.

3x

Please note that there are information symbols which indicate necessary information.

For further information see:

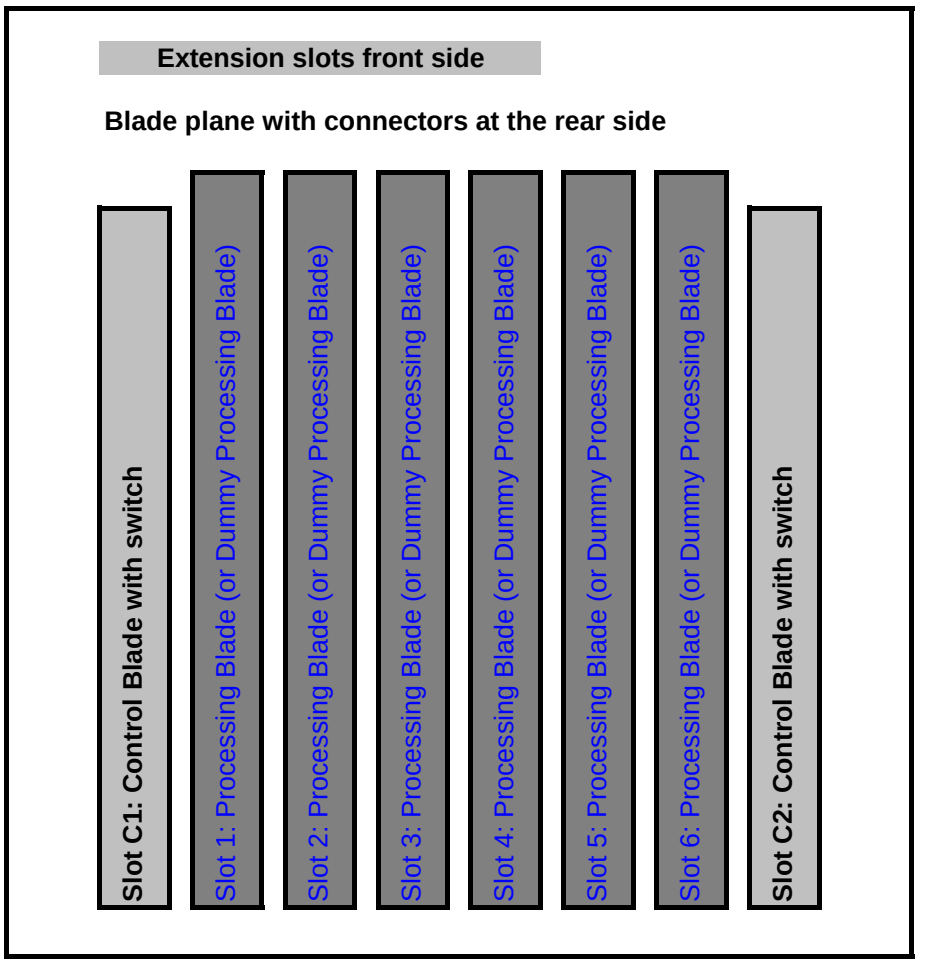
http://ts.fujitsu.com/products/standard_servers/index.html (internet)

https://partners.ts.fujitsu.com/com/order-supply/configurators/primergy_config/current/Pages/default.aspx (extranet)

Prices and availability see price list and PC-/ System-Architect
Subject to change and errors excepted

Configuration diagram BF200 BladeFrame chassis incl. Control Blades

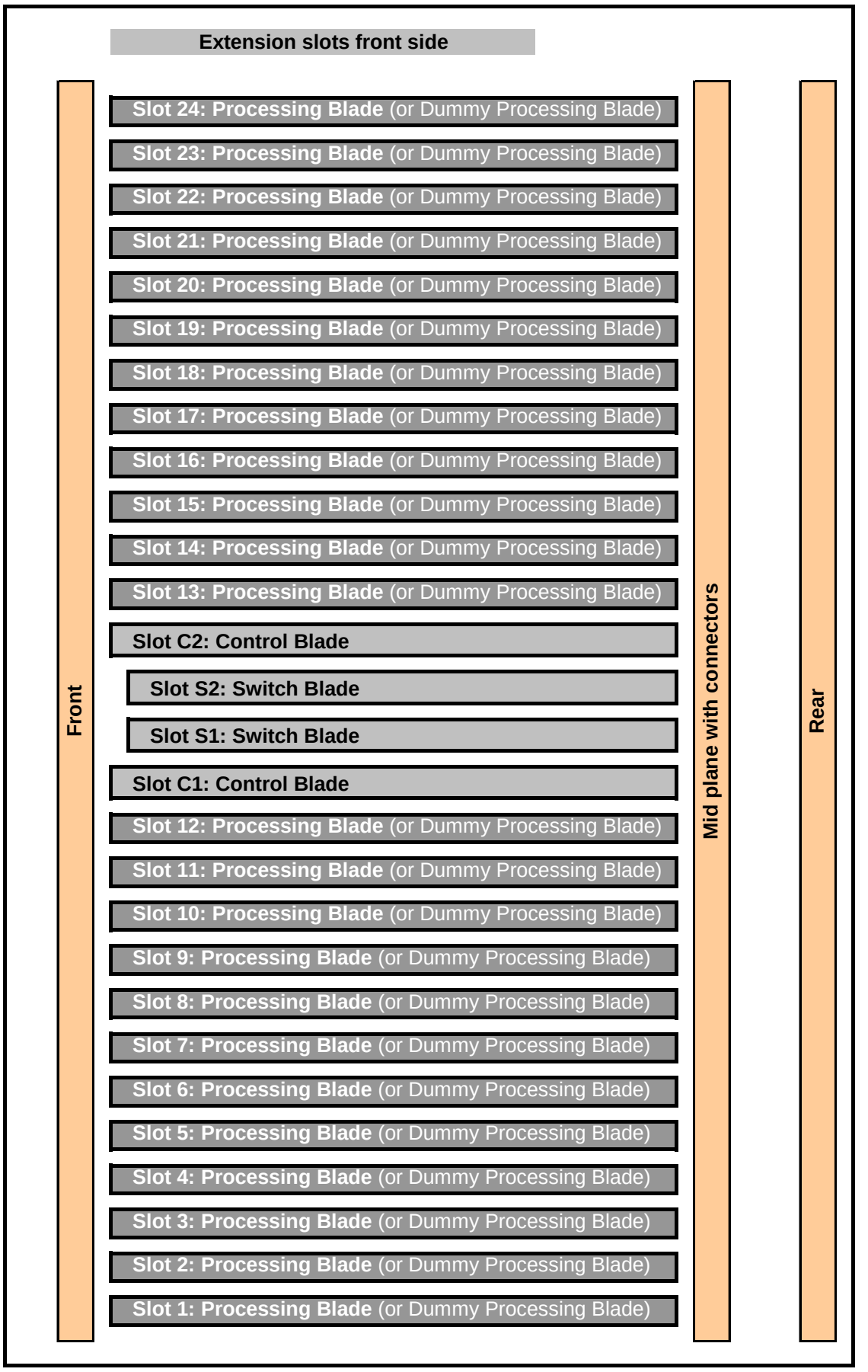
System Unit BF200 (I)


Extension slots front side
Blade plane with connectors at the rear side
Slot C1: Control Blade with switch
Slot 1: Processing Blade (or Dummy Processing Blade)
Slot 2: Processing Blade (or Dummy Processing Blade)
Slot 3: Processing Blade (or Dummy Processing Blade)
Slot 4: Processing Blade (or Dummy Processing Blade)
Slot 5: Processing Blade (or Dummy Processing Blade)
Slot 6: Processing Blade (or Dummy Processing Blade)
Slot C2: Control Blade with switch

Bright color: included dark color: configurable

Configuration diagram BF400 S2 BladeFrame chassis incl. Control Blades

System Unit BF400 S2 (II)



Bright color: included dark color: configurable

Start PRIMERGY BladeFrame System Software

Software Configurator

There are two licensing and related pricing models for the system software available:
- modular (since pricelist 4/2007): base license per frame plus enhanced licenses per pBlade type
- standard full function: license for max number and each type of pBlades without functional limitation (in addition special offering: "pay as you grow" for BF400 S2)

Note: in longer term the standard licensing will be phased out

Modular Licensing for System Software | Standard Full Function Licensing for System Software

Alternative A

Alternative B (for Production System)
Alternative C (for Demo System)
Alternative D (for Evaluation System)

Alternative A

Modular Licensing for System Software

max.6x or 24x

for 2-socket pBlade

PAN Portability and DR License limited to one 2-socket pBlade for BF200 or BF400 S2
S26361-F3226-E375
- includes PAN portability and DR license for one 2-socket pBlade - requires SW base license (-E370 or -E379) - and for Failover functionality order optional Server Portability lic. (-E373 or -E374)
To be ordered per 2-Socket pBlade if needed
SW100605FS

for 4-socket pBlade

PAN Portability and DR License limited to one 4-socket pBlade for BF200 or BF400 S2
S26361-F3226-E376
- includes PAN portability and DR license for one 4-socket pBlade - requires SW base license (-E370 or -E379) - and for Failover functionality order optional Server Portability lic. (-E373 or -E374)
To be ordered per 4-Socket pBlade if needed
SW100606FS

Can be ordered once per pBlade

Server Portability and Failover License limited to one 2-socket pBlade for BF200 or BF400 S2
S26361-F3226-E373
- includes server portability and failover license for one 2-socket pBlade - requires SW base license (-E370 or -E379)
To be ordered per 2-Socket pBlade if needed
SW100603FS

Server Portability and Failover License limited to one 4-socket pBlade for BF200 or BF400 S2
S26361-F3226-E374
- includes server portability and failover license for one 4-socket pBlade - requires SW base license (-E370 or -E379)
To be ordered per 4-Socket pBlade if needed
SW100604FS

Can be ordered once per pBlade

BladeFrame Software Base License for Frame and 24 pBlades per System Unit BF400 S2
S26361-F3226-E370
includes - base license (PAN Virtualization & Mgmt; and vBlades) for BF400S2 frame and up to 24 pBlades - software and documentation - OS extensions for RedHat RHEL4 and 5, SuSE Linux ES 9 and ES 10 (support of 32-bit and 64-bit)
Must be ordered per System Unit BF400 S2
SW100600FS

BladeFrame Software Base License for Frame and 6 pBlades per System Unit BF200
S26361-F3226-E379
includes - base license (PAN Virtualization & Mgmt; and vBlades) for BF200 frame and up to 6 pBlades - software and documentation - OS extensions for RedHat RHEL4 and 5, SuSE Linux ES 9 and ES 10 (support of 32-bit and 64-bit)
Must be ordered per System Unit BF200
SW100300FS

Must be ordered once per System Unit!

End of Alternative A

Alternative B

Standard Full Function Licensing for System Software

BladeFrame Software Basis Set per System Unit BF400 S2

S26361-F3226-E310

Includes software and documentation for BF400 S2 system software (PAN Manager incl. vBlades) and OS extensions for RedHat Linux RHEL4 and 5, SuSE Linux ES 9 and ES 10 (support of 32-bit and 64-bit)

Must be ordered per System Unit BF400/BF400 S2

SW100210FS

BladeFrame SW License (up to 24 pBlades) per System Unit BF400 S2

S26361-F3226-E315

Includes license for up to 24 pBlades for BF400 S2 system software (PAN Manager incl. vBlades) and OS extensions for RedHat Linux RHEL4 and 5, SuSE Linux ES 9 and ES 10 (support of 32-bit and 64-bit)

Must be ordered per System Unit BF400/BF400 S2

for customers only which before had ordered S26361-F3226-E319 (Software Basis Set per System Unit BF400 S2 with 8 pBlades) and S26361-F3226-E317 (SW License limited to 8 pBlades)

Use "Modular Pricing" alternative for new BF400S2 projects

BladeFrame Software Basis Set per System Unit BF200

S26361-F3226-E311

Includes software and documentation for BF200 system software (PAN Manager incl. vBlades) and OS extensions for RedHat Linux RHEL4 and 5, SuSE Linux ES 9 and ES 10 (support of 32-bit and 64-bit)

Must be ordered per System Unit BF200

SW100301FS

Must be ordered once per System Unit!

BladeFrame SW License (up to 6 pBlades) per System Unit BF200

S26361-F3226-E316

Includes license for up to 6 pBlades for BF200 system software (PAN Manager incl. vBlades) and OS extensions for RedHat Linux RHEL4 and 5, SuSE Linux ES 9 and ES 10 (support of 32-bit and 64-bit)

Must be ordered per System Unit BF200

Must be ordered once per System Unit!

To be ordered for each additional Processing Blade (pBlade), see sections III to VI, which will be used with this special BF400 S2 offering with 8 pBlades

up to 16x

BladeFrame SW License (limited to 1 add. pBlade) per System Unit BF400 S2

S26361-F3226-E318

Includes license, limited to 1 additional pBlade, for BF400 S2 system software and OS extensions for RedHat RHEL 4 and 5, SuSE Linux ES 9 and ES 10 (support of 32-bit and 64-bit)

Must be ordered for each additional pBlade

End of Alternative B

Alternative C

Standard Full Function Licensing for Demo System Software

BladeFrame Software Demo Basis Set per System Unit BF400 S2 for Demo System, non-production usage	**BladeFrame Software Demo Basis Set per System Unit BF200 for Demo System, non-production usage**
S26361-F3226-E321	**S26361-F3226-E322**
Includes software and documentation for BF400 S2 system software (PAN Manager incl. vBlades) and OS extensions for RedHat RHEL4 and 5, SuSE Linux ES 9 and ES 10 (support of 32-bit and 64-bit)	Includes software and documentation for BF200 system software (PAN Manager incl. vBlades) and OS extensions for RedHat RHEL4 and 5, SuSE Linux ES 9 and ES 10 (support of 32-bit and 64-bit)
Must be ordered per System Unit BF400 S2	Must be ordered per System Unit BF200
SW100609FS	SW100304FS

Must be ordered once per System Unit!

End of Alternative C

Alternative D

Standard Full Function Licensing for Evaluation System Software

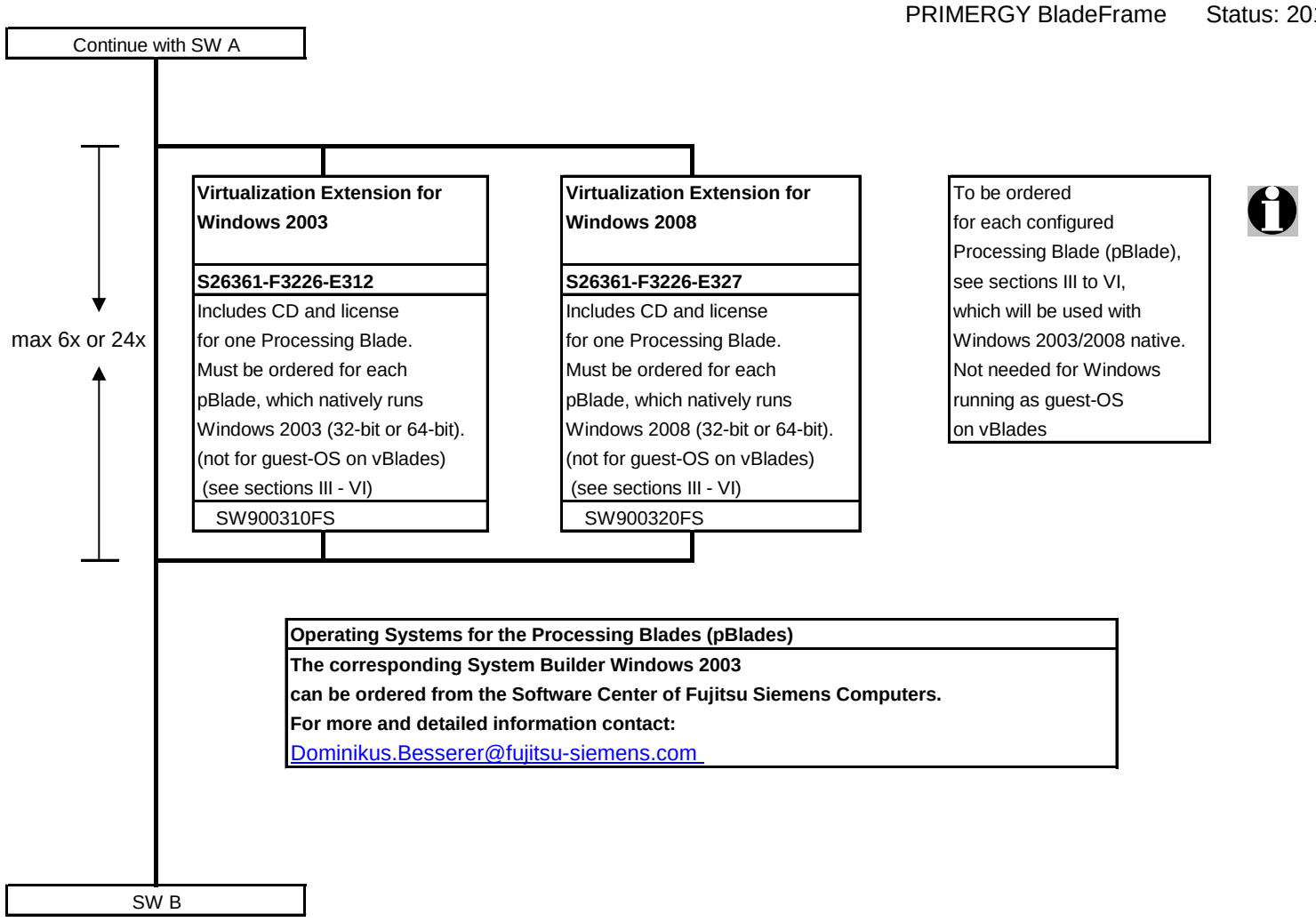
BladeFrame Software Eval Basis Set per System Unit BF400 S2 for Eval System, non-production usage, max 6 months, non-transferable	**BladeFrame Software Eval Basis Set per System Unit BF200 for Eval System, non-production usage, max 6 months, non-transferable**
S26361-F3226-E323	**S26361-F3226-E324**
Includes software and documentation for BF400 S2 system software (PAN Manager incl. vBlades) and OS extensions for RedHat RHEL 4 and 5, SuSE Linux ES 9 and ES 10 (support of 32-bit and 64-bit)	Includes software and documentation for BF200 system software (PAN Manager incl. vBlades) and OS extensions for RedHat RHEL 4 and 5, SuSE Linux ES 9 and ES 10 (support of 32-bit and 64-bit)
Must be ordered per System Unit BF400 S2	Must be ordered per System Unit BF200
SW100608FS	SW100303FS

Must be ordered once per System Unit!

BladeFrame SW Eval License (up to 24 pBlades) per System Unit BF400 S2 for Eval System, non-production usage, max 6 months, non-transferable	**BladeFrame SW Eval License (up to 6 pBlades) per System Unit BF200 for Eval System, non-production usage, max 6 months, non-transferable**
S26361-F3226-E325	**S26361-F3226-E326**
Includes evaluation license for up to 24 pBlades for BF400 S2 system software (PAN Manager incl. vBlades) and OS extensions for RedHat RHEL 4 and 5, SuSE Linux ES 9 and ES 10 (support of 32-bit and 64-bit)	Includes evaluation license for up to 6 pBlades for BF200 system software (PAN Manager incl. vBlades) and OS extensions for RedHat RHEL 4 and 5, SuSE Linux ES 9 and ES 10 (support of 32-bit and 64-bit)
Must be ordered per System Unit BF400 S2	Must be ordered per System Unit BF200

Must be ordered once per System Unit!

End of Alternative D


Continue with SW A
max 6x or 24x
Virtualization Extension for Windows 2003
S26361-F3226-E312
Includes CD and license for one Processing Blade. Must be ordered for each pBlade, which natively runs Windows 2003 (32-bit or 64-bit). (not for guest-OS on vBlades) (see sections III - VI)
SW900310FS
Virtualization Extension for Windows 2008
S26361-F3226-E327
Includes CD and license for one Processing Blade. Must be ordered for each pBlade, which natively runs Windows 2008 (32-bit or 64-bit). (not for guest-OS on vBlades) (see sections III - VI)
SW900320FS
To be ordered for each configured Processing Blade (pBlade), see sections III to VI, which will be used with Windows 2003/2008 native. Not needed for Windows running as guest-OS on vBlades
Operating Systems for the Processing Blades (pBlades)
The corresponding System Builder Windows 2003
can be ordered from the Software Center of Fujitsu Siemens Computers.
For more and detailed information contact:
Dominikus.Besserer@fujitsu-siemens.com
SW B

SW B

Linux OEM Software

SUSE Linux Enterprise Server (OEM)

Apply to all listed SUSE Linux OEM products:
These software may only be ordered and used with Fujitsu Siemens Computers hardware.
All initial Upgrade Protections (E order code) may only be purchased bundled with the corresponding server.
After the expiration of an initial Upgrade Protection (E order code) it may be renewed for additional 1, 3 or 5 years by anyone of the same products with a corresponding L order number.
All media kits may only be used with a valid Upgrade Protection.
Pay attention to release and order information in PRINCE -> Operating System -> Linux

SUSE Linux ES 10 kit (CD+man)
SUSE Linux Enterprise Server 10 for X86 and for AMD64 & Intel EM64T media kit (Media and manual)
U15045-C192-B

SUSE Linux ES 9 kit (CD+man)
SUSE Linux Enterprise Server 9 for X86 and for AMD64 & Intel EM64T media kit (Media and manual)
U15045-C109-B

to be ordered for each respective blade

SUSE Linux ES <=32CPU 1Y
SUSE Linux Enterprise Server for all platforms
1-Server up to 32-CPU sockets 1-Year Subscription
U15045-C112-B

to be ordered for BF200

SUSE Linux ES x86 & EM64T BF200 3Y
SUSE Linux Enterprise Server for x86 and AMD64 & EM64T
BF200 System Unit 3-Years Upgrade Protection.
U15045-C162-B

to be ordered for BF400

SUSE Linux ES x86 & EM64T BF400 3Y
SUSE Linux Enterprise Server for x86 and AMD64 & EM64T
BF400 System Unit 3-Years Upgrade Protection.
U15045-C172-B

Continue with PRIMERGY BladeFrame hardware configurator

SW C

SW C

Red Hat Enterprise Linux - L3 Support (OEM)

Apply to all listed Red Hat Linux OEM products:
These software may only be ordered and used with Fujitsu Siemens Computers hardware.
All initial Subscriptions may only be purchased bundled with the corresponding server.
After the expiration of an initial Subscription it may be renewed by on of the same products.
Important notice:
Since the Red Hat Enterprise Linux Suscriptions only comprises Red Hat level3 Support
the corresponding Service Packs or appropriate Linux Contracts must mandatorily be
purchased and used beside Subscriptions.

Pay attention to release and order information in PRINCE -> Operating Systems - Linux

Red Hat EL <=2CPU 5x9 1Y
Red Hat Enterprise Linux up to 2-CPU sockets
5x9 l3 support for x86, x86_64 1-Server 1-Year
S26361-F2346-E701

Red Hat EL <=2CPU 5x9 3Y
Red Hat Enterprise Linux up to 2-CPU sockets
5x9 l3 support for x86, x86_64 1-Server 3-Years
S26361-F2346-E702

Red Hat EL AP 5x9 1Y
Red Hat Enterprise Linux AP for x86, x86_64
5x9 l3 support 1-Server 1-Year
S26361-F2346-E711

Red Hat EL AP 5x9 3Y
Red Hat Enterprise Linux AP for x86, x86_64
5x9 l3 support 1-Server 3-Years
S26361-F2346-E712

Red Hat EL <=2CPU 7x24 1Y
Red Hat Enterprise Linux up to 2-CPU sockets
7x24 l3 support for x86, x86_64 1-Server 1-Year
S26361-F2346-E706

Red Hat EL <=2CPU 7x24 3Y
Red Hat Enterprise Linux up to 2-CPU sockets
7x24 l3 support for x86, x86_64 1-Server 3-Years
S26361-F2346-E707

Red Hat EL AP 7x24 1Y
Red Hat Enterprise Linux AP for x86, x86_64
7x24 l3 support 1-Server 1-Year
S26361-F2346-E716

Red Hat EL AP 7x24 3Y
Red Hat Enterprise Linux AP for x86, x86_64
7x24 l3 support 1-Server 3-Years
S26361-F2346-E717

Continue with PRIMERGY BladeFrame hardware configurator

SW D

SW D

Solaris Operating System

Solaris 10 Operating system

Apply to all listed Solaris software
This software may only be ordered and used with Fujitsu Siemens Computers hardware.
At least one Solaris Media Kit has to be ordered together with each system.
Order required number of 3rd level support contracts together in one order per each system separately.
3rd level support MUST be sold together with a 1st+2nd level support contract from FSC ITPS.
Pay attention to release and order information in PRINCE -> Operating System -> Solaris

to be ordered for each respective blade

Solaris 10 license, 2-Socket Server
License only, MUST be ordered with 3rd Level Support
S26361-F3226-E341

S10 3rd Level Support, 3 year, 2 sock. 5x9
includes 3rd Level Support and SunSolve access for patches
Additional 1st+2nd Level support with FSC ITPS is mandatory.
S26361-F3226-E337

to be ordered for each respective blade

Solaris 10 license, 4-Socket Server
License only, MUST be ordered with 3rd Level Support
S26361-F3226-E338

S10 3rd Level Support, 3 year, 4 sock. 5x9
includes 3rd Level Support and SunSolve access for patches
Additional 1st+2nd Level support with FSC ITPS is mandatory.
S26361-F3226-E340

Solaris 10 Media kit
incl. extensions for BladeFrame
to be ordered at least once per system
S26361-F3226-E330

Solaris 10 Demo Media kit
for BF200 or BF400 S2
for Demo System, non-production usage
incl. extensions for BladeFrame
to be ordered at least once per system
S26361-F3226-E336
SW900488FS

SW E

SW E

VMware ESX3.5 Operating System

Apply to all listed VMware Software products:
The BladeFrame specific "E" order numbers (S26361-F2341-E390 ... E393) for OEM versions are usable, when ordering together with new pBlades, otherwise please use the corresponding "L" order numbers (L303 ... L306).
Pay attention to release and order information in PRINCE -> Operating System -> VMware

VMware-Software License and SNS
- Virtual Infrastructure 3 Standard and Enterprise
- ESX3.5

The software can be downloaded.
In addition a Media Kit can be ordered
(S26361-F2341-L300)

For this SW product please refer to the corresponding software configurator accessible via the Extranet under "Configuration & Tools, -All configurations, -Software,

for internal users:
for partners:

Continue with PRIMERGY BladeFrame hardware configurator

Start PRIMERGY BladeFrame System

Section I System Unit BF200 no longer available

The System Unit BF200 is the chassis for rack integration (FSC PrimeCenter) and consists of:
*** Chassis (13U); Dimensions (H/W/D): 57.8 / 44.7 / 76 cm; Weight: 127kg (fully configured)**
Including:
*** all connection infrastructure for Processing Blades**
*** 19" Rack mounting kit**
*** 1 Power Input Moduls**
*** 2 Redundant Control Blades**
*** 1x power cord 32A CEE (max. 30A system requirement), Universal European (IEC 309), 3.5m**
*** Bays / slots**
- 6 empty slots for up to 6 processing blades, has to be fully populated with Processing Blades or Dummy Processing Blades

External Interfaces:
- 4x Fibre Channel connections for SAN incl. SFP modules
- 4x Gigabit Ethernet LAN connections, copper RJ45 or fibre SFP included

Software:
- (see section Software Configuration)

Both the Dual and the Quad Processing Blades can be used in mixed configuration within the system unit.

S26361-K1060-V311
System Unit BF200, with 2 Control Blades
4x FC ports incl. SFP modules
4x GbE ports incl. copper SFP modules
ES100103R
Needs 13 height units (U)

S26361-K1060-V312
System Unit BF200, with 2 Control Blades
4x FC ports incl. SFP modules
4x GbE ports incl. fibre SFP modules
ES100104R
Needs 13 height units (U)

S26361-F3229-L999
Accessory pack for System Unit BF200
Contains important information and Rack mount accessories.
max. 1x per System Unit BF200

Additional SFP modules can be ordered separately to change some or all SFPs from copper to fibre or vice versa in qty 1.

copper: S26361-F3240-E21
fibre: S26361-F3240-E22

A static transfer switch for BF200 is offered by Emerson Network Power. A FSC white paper describes the details, see Extranet

A

A

Section II System Unit BF400 S2 no longer available

The System Unit BF400 S2 is a separate stand alone system and consisting of:
*** Stand alone chassis; Dimensions (H/W/D): 210 / 61 / 89 cm; Weight: 454kg (fully configured)**
Including:
*** all connection infrastructure for Processing Blades**
*** 4 Power Input Moduls**
*** 2 Redundant Control Blades**
*** 2 Redundant internal Switch Blades**
*** 4x power cords 32A CEE (max. 24A system requirement), Universal European (IEC 309), 3.5m each**
*** Bays / slots**
- 24 empty slots for up to 24 processing blades, has to be fully populated with Processing Blades or Dummy Processing Blades

*** Redundant Power Option for redundant input power from two AC power sources (as an option)**

External Interfaces:
The Control Blades provide slots for
- 4x 2Gbit Fibre Channel ports
- 4x Gigabit Ethernet LAN ports
- 4x 10/100/1000 Ethernet LAN ports

Software:
- (see section Software Configuration)

Both the Dual and the Quad Processing Blades can be used in mixed configuration within the system unit.

S26361-K1060-V413
System Unit BF400 S2, with
2x internal Switch Blades
2x Control Blades EX
BC100110R
Stand alone Chassis

S26361-F3229-L998
Accessory pack for System Unit
BF400 S2
Contains important information
max. 1x per System Unit BF400

S26361-F3240-E110
Standard Power Option (PIM-B)
for input power
from a single AC power source
connector: **international** (EMEA)
PMS00101R
4x per System Unit BF400 S2

S26361-F3240-E111
Redundant Power Option (PIM-R)
for redundant input power
from two AC power sources
connector: **international** (EMEA)
PMS00111R
4x per System Unit BF400 S2

S26361-F3240-E102 / -E103
Standard / Redundant Power Option (PIM-B/-R)
for standard / redundant input power
from single / two AC power sources
connector: **North America**
PM100202 / PM100222
4x per System Unit BF400 S2

S26361-F3240-E13
Communication Option
for the two Control Blades EX
4x 2Gbit Fibre Channel ports
4x Gbit Ethernet Fibre ports
4x 10/100/1000 Ethernet (RJ45)
CB3S0110R
2x per System Unit BF400 S2

S26361-F3240-E14
Communication Option
for the two Control Blades EX
4x 2Gbit Fibre Channel ports
4x Gbit Ethernet ports (RJ45)
4x 10/100/1000 Ethernet (RJ45)
CB3S0111R
2x per System Unit BF400 S2

Additinal SFP modules can
be ordered separately to
change some or all SFPs
from copper to fibre or
vice versa in qty 1

copper: S26361-F3240-E21
fibre: S26361-F3240-E22

Note: The different communication options come with all necessary interface modules.

B

B

Section III Upgrade Kit BF400 to BF400 S2 (BF400 Chassis reused) no longer available

The BF400 Upgrade Kit consists of all components to upgrade an existing BF400 to the same functionality of a BF400 S2:
*** All connection infrastructure (BladePlane) for Processing Blades**
*** 2 Redundant Control Blades**
*** 2 Redundant internal Switch Blades**
*** 4x Standard Power Option or**
*** 4x Redundant Power Option for redundant input power from two AC power sources (as an option)**
*** 4x (8x for redundancy) power cords 32A CEE (max. 24A system requirement), Universal European (IEC 309), 3.5m each**

External Interfaces:
The Control Blades provide slots for
- 4x 2Gbit Fibre Channel ports
- 4x Gigabit Ethernet LAN ports
- 4x 10/100/1000 Ethernet LAN ports

Software:
- The BF400 PAN Manager license can be reused; the SW kit for the required release is included

S26361-K1060-V414
BF400 Upgrade Kit, with
2x internal Switch Blades
2x Control Blades EX
1x SW kit with PAN Manager
BC100112R
Available Chassis reused

This Upgrade Kit does not contain a chassis. It is used the existing chassis of the System Unit BF400

S26361-F3229-L998
Accessory pack for System Unit BF400 S2
Contains important information
max. 1x per BF400 Upgrade Kit

S26361-F3240-L110
Standard Power Option (PIM-B)
for input power
from a single AC power source
PMS00102R
4x per BF400 Upgrade Kit

S26361-F3240-L111
Redundant Power Option (PIM-R)
for redundant input power
from two AC power sources
PMS00112R
4x per BF400 Upgrade Kit

S26361-F3240-E13
Communication Option
for the two Control Blades EX
4x 2Gbit Fibre Channel ports
4x Gbit Ethernet Fibre ports
4x 10/100/1000 Ethernet (RJ45)
CB3S0110R
2x per BF400 Upgrade Kit

S26361-F3240-E14
Communication Option
for the two Control Blades EX
4x 2Gbit Fibre Channel ports
4x Gbit Ethernet ports (RJ45)
4x 10/100/1000 Ethernet (RJ45)
CB3S0111R
2x per BF400 Upgrade Kit

Additinal SFP modules can be ordered separately to change some or all SFPs from copper to fibre or vice versa in qty 1

copper: S26361-F3240-E21
fibre: S26361-F3240-E22

Note: The different communication options come with all necessary interface modules.

C

C

Section IV Processing Blades BFi20

Processing Blades with:
- Dual Intel Xeon Processor Support with EM64T
- Different memory configurations with DDR2 DIMM modules
- No internal hard disks
- Different number of processing blades can be installed in System Unit BF200 (max. 6) and System Unit BF400 / BF400 S2 (max. 24)

The System has to be always fully populated with Processing Blades or Dummy Processing Blades. See section VIII

max.6x or 24x

S26361-K1061-V240 **BFi20S5/2X E5506 2.13 4M/8GB Processing Blade with 64-bit Intel Xeon 5506 2.13 GHz**
includes 2x CPU (Quad Core)
4MB TLC and 8GB memory
occupies one slot
PB320001R
max. 6x per System Unit BF200
max. 24x per S.U. BF400 S2

S26361-K1061-V248 **BFi20S5/2X X5570 2.93 8M/36GB Processing Blade with 64-bit Intel Xeon 5570 2.93 GHz**
includes 2x CPU (Quad Core)
8MB TLC and 36GB memory
occupies one slot
PB320004R
max. 6x per System Unit BF200
max. 24x per S.U. BF400 S2

max.6x or 24x

S26361-K1061-V257 **BFi20S6/2X 5670 2.93 12M/24GB Processing Blade with 64-bit Intel Xeon 5670 2.93 GHz**
includes 2x CPU (Six Core)
12MB TLC and 24GB memory
occupies one slot
PB320010R
max. 6x per System Unit BF200
max. 24x per S.U. BF400 S2

S26361-K1061-V258 **BFi20S6/2X 5670 2.93 12M/36GB Processing Blade with 64-bit Intel Xeon 5670 2.93 GHz**
includes 2x CPU (Six Core)
12MB TLC and 36GB memory
occupies one slot
PB320011R
max. 6x per System Unit BF200
max. 24x per S.U. BF400 S2

S26361-K1061-V259 **BFi20S6/2X 5670 2.93 12M/72GB Processing Blade with 64-bit Intel Xeon 5670 2.93 GHz**
includes 2x CPU (Six Core)
12MB TLC and 72GB memory
occupies one slot
PB320012R
max. 6x per System Unit BF200
max. 24x per S.U. BF400 S2

SW License for each additional pBlade need to be ordered for the special BF400S2/8pBlade bundle. see Software Configuration

Modular SW licenses for each pBlade need to be ordered if this special functionality for Server or PAN portability is requested see Software Configuration

to be continued on next page

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Section V Processing Blades BFa20

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Processing Blades with:
- Dual AMD Opteron Processor Support
- Different memory configurations with DDR1 DIMM modules
- No internal hard disks
- Different number of processing blades can be installed in System Unit BF200 (max. 6) and System Unit BF400 / BF400 S2 (max. 24)

max.6x or 24x

S26361-K1061-V314
BFa20S2/2O 2220SE 2.8 2M/16GB
Processing Blade with
AMD Opteron (2220SE) 2.8 GHz
includes 2x CPU (Dual Core), 2MB SLC and 16GB memory
occupies one slot
PB600002R
max. 6x per System Unit BF200
max. 24x per S.U. BF400 S2

The System has to be always fully populated with Processing Blades or Dummy Processing Blades.
See section VIII

SW License for each additional pBlade need to be ordered for the special BF400S2/8pBlade bundle.
see Software Configuration

Modular SW licenses for each pBlade need to be ordered if this special functionality for Server or PAN portability is requested
see Software Configuration

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Section VI Processing Blades BFi40

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Processing Blades with
- Quad Intel Xeon MP Processor Support with EM64T
- Different memory configurations with DDR2 DIMM modules
- No internal hard disks
- Different number of processing blades can be installed in System Unit BF200 (max. 6) and System Unit BF400 S2 (max. 24)

max.6x or 24x

S26361-K1061-V432	**S26361-K1061-V434**
BFi40S5/4X E7450 2.40 12M/32GB	**BFi40S5/4X E7450 2.40 12M/96GB**
Processing Blade with	**Processing Blade with**
64-bit Intel Xeon E7450 2.40GHz	**64-bit Intel Xeon E7450 2.40GHz**
includes 4x CPU (Six Core)	includes 4x CPU (Six Core)
12MB TLC and 32GB memory	12MB TLC and 96GB memory
occupies one slot	occupies one slot
PB400005R	PB400007R
max. 6x per System Unit BF200	max. 6x per System Unit BF200
max. 24x per S.U. BF400 S2	max. 24x per S.U. BF400 S2

The System has to be always fully populated with Processing Blades or Dummy Processing Blades.
See section VIII

SW License for each additional pBlade need to be ordered for the special BF400S2/8pBlade bundle.
see Software Configuration

Modular SW licenses for each pBlade need to be ordered if this special functionality for Server or PAN portability is requested
see Software Configuration

to be continued on next page

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Section VIII Dummy Processing Blades

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Only allowed, when system is fully populated with Processing Blades

S26361-K1061-V210
Dummy Processing Blade
for all System Units
For remaining slots, when
not all slots are populated
with Processing Blades
PB000010R
max. 6x per System Unit BF200
max. 24x per S.U. BF400 S2

The System has to be always fully populated with Processing Blades or Dummy Processing Blades

End PRIMERGY BladeFrame

Change Report

Date	Order number	Changes
2011-10-01	S26361-K1061-V247, S26361-K1061-V249, S26361-K1061-V517	Processing Blades - no longer available
2010-09-01	S26361-K1061-V257, S26361-K1061-V258, S26361-K1061-V259	new Processing Blades - now available
2009-07-31	S26361-K1061-V249	Processing Blade with 64-bit Intel X5570 2.93 8M/72GB - now available
2008-11-27	S26361-K1061-V434	Processing Blade with 64-bit Intel Xeon E7450 2.40GHz - now available
2008-11-27	S26361-K1061-V432	Processing Blade with 64-bit Intel Xeon E7450 2.40GHz - now available
2008-05-29	S26361-K1061-V515	Processing Blade with AMD Opteron (8216) 2.4 GHz - no longer available
2008-05-29	S26361-K1061-V514	Processing Blade with AMD Opteron (8216) 2.4 GHz - no longer available
2008-05-29	S26361-K1061-V513	Processing Blade with AMD Opteron (8216) 2.4 GHz - no longer available
2008-05-29	S26361-K1061-V313	Processing Blade with AMD Opteron (2216) 2.4 GHz - no longer available
2008-03-26		New Order numbers for PAN-SW (DEMO and Evalution)
2007-12-11	S26361-K1061-V232	Processing Blade with 64-bit Intel Xeon E5450 3.00 GHz 32 GB - now available
2007-12-11	S26361-K1061-V231	Processing Blade with 64-bit Intel Xeon E5450 3.00 GHz 16 GB - now available
2007-12-11	S26361-K1061-V230	Processing Blade with 64-bit Intel Xeon E5410 2.33 GHz 8 GB - now available
2007-10-26	S26361-K1061-V217	Processing Blade with 64-bit Intel Xeon 5160 3.00GHz - no longer available
2007-10-26	S26361-K1061-V216	Processing Blade with 64-bit Intel Xeon 5160 3.00GHz - no longer available
2007-09-18	S26361-K1061-V423	Processing Blade with 64-bit Intel Xeon X7350 2.93GHz 64GB - now available
2007-09-18	S26361-K1061-V422	Processing Blade with 64-bit Intel Xeon X7350 2.93GHz 32GB - now available
2007-07-20	S26361-K1061-V220	Processing Blade with 64-bit Intel Xeon 5355 2.66 GHz 8 GB - now available
2007-07-20	S26361-F3226-E319	PY BF400 SW Basis Set (8 pBlades) - no longer available
2007-07-20	S26361-F3226-E317	PY BF400 SW Licence (8 pBlades) - no longer available
2007-05-31	S26361-K1060-V32x	Bundle option 1 bis 4: BF200 4/4, SW, 6 pBlades (Intel,AMD) - no longer available
2007-04-27	S26361-K1061-V222	Processing Blade with 64-bit Intel Xeon 5355 2.66 GHz 32 GB - now available
2007-01-25	S26361-K1061-V416	Processing Blade with 64-bit Intel Xeon 7140M 3.4GHz - now available
2007-01-25	S26361-K1061-V221	Processing Blade with 64-bit Intel Xeon 5355 2.66 GHz - now available
2006-11-20	S26361-K1061-V511	Processing Blade with AMD Opteron (852) 2.6 GHz - no longer available
2006-11-20	S26361-K1061-V512	Processing Blade with AMD Opteron (875) 2.2 GHz - no longer available
2006-11-20	S26361-K1061-V517	Processing Blade with AMD Opteron (2220SE) 2.8 GHz - now available
2006-09-27	S26361-F3226-E320	Automatization of purchase order processing - no longer necessary
2006-09-16	S26361-K1060-V324	Bundle option 4: BF200 4/4f, SW, 6 pBlades (AMD) - now available
2006-09-16	S26361-K1060-V323	Bundle option 3: BF200 4/4c, SW, 6 pBlades (AMD) - now available
2006-09-16	S26361-K1060-V322	Bundle option 2: BF200 4/4f, SW, 6 pBlades (Intel) - now available
2006-09-16	S26361-K1060-V321	Bundle option 1: BF200 4/4c, SW, 6 pBlades (Intel) - now available
2006-08-23	S26361-K1061-V515	Processing Blade with AMD Opteron (2216) 2.4 GHz - now available
2006-08-23	S26361-K1061-V514	Processing Blade with AMD Opteron (2216) 2.4 GHz - now available
2006-08-23	S26361-K1061-V513	Processing Blade with AMD Opteron (2216) 2.4 GHz - now available
2006-08-23	S26361-K1061-V314	Processing Blade with AMD Opteron (2220SE) 2.8 GHz - now available
2006-08-23	S26361-K1061-V313	Processing Blade with AMD Opteron (2216) 2.4 GHz - now available